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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number

10/068,718

Filing Date

February 6, 2002

First Named Inventor

David K. Mesecher

Art Unit

2637

Examiner Name

Temesghen Ghebretinsae

Attorney Docket Number

I-2-0108.3US

**ENCLOSURES** (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Form PTO-1449
<input checked="" type="checkbox"/> Supplemental Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

Remarks

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	VOLPE AND KOENIG, P.C.		
Signature			
Printed name	Jeffrey M. Glabicki		
Date	April 25, 2005	Reg. No.	42,584

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Jeffrey M. Glabicki	Date	April 25, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the **PATENT APPLICATION** of:

David K. Mesecher

**Application No.:** 10/068,718

**Confirmation No.:** 9798

**Filed:** February 6, 2002

**For:** BASE STATION FOR USE IN A CDMA  
COMMUNICATION SYSTEM USING AN  
ANTENNA ARRAY

**Group:** 2637

**Examiner:** Temesghen Ghebretinsae

**Our File:** I-2-108.3US

**Date:** April 25, 2005

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
INCLUDING RULE 1.704 (d) STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicants wish to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Newly cited documents are indicated by an asterisk (\*).

Pursuant to 37 C.F.R. § 1.98 (a)(2)(ii), copies of the cited U.S. publications and/or patent documents have not been included.

In the spirit of Rule 1.704(d), the undersigned certifies that each new item of information contained in this Information Disclosure Statement was cited in a


**Applicant:** David K. Mesecher  
**Application No.:** 10/068,718

communication from a counterpart U.S. patent application, and that this communication was not received by any individual designated in §1.56(c) more than thirty (30) days prior to the filing of the information disclosure statement.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

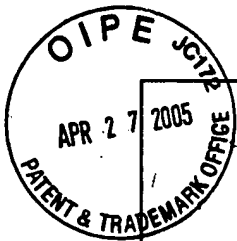
Respectfully submitted,

David K. Mesecher

By   
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(215) 568-6400

Volpe and Koenig, P.C.  
United Plaza, Suite 1600  
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JMG/drj  
Enclosure



FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)				ATTY. DOCKET NO. I-2-0108.3US		SERIAL NO. 10/068,718	
APPLICANT David K. Mesecher							
FILING DATE February 6, 2002				GROUP 2637			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		3,662,268	05/1972	Gans et al.			
		4,736,460	04/1988	Rilling			
		4,901,307	02/1990	Gilhousen et al.			
		5,146,475	09/1992	Kubo			
		5,319,677	06/1994	Kim			
		5,331,666	07/1994	Dent			
		5,381,443	01/1995	Borth et al.			
		5,457,704	10/1995	Hoeher et al.			
		5,493,563	02/1996	Rozanski et al.			
		5,623,511	04/1997	Bar-David et al.			
		5,652,764	07/1997	Kanzaki et al.			
		5,673,294	09/1997	Namekata			
		5,680,419	10/1997	Bottomley			
		5,694,388	12/1997	Sawahashi et al.			
		5,809,020	09/1998	Bruckert et al.			
		5,812,542	09/1998	Bruckert et al.			
		5,822,380	10/1998	Bottomley			
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		5,886,987	03/1999	Yoshida et al.			
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		5,952,968	09/1999	McDowell			
		5,982,327	11/1999	Vook et al.			
		5,991,332	11/1999	Lomp et al.			
		6,009,074	12.19/99	Kim et al.			
		6,026,130	02/2000	Rahmatullah et al.			
		6,044,120	03/2000	Bar-David et al.			
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b>  <b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)				<b>ATTY. DOCKET NO.</b> I-2-0108.3US		<b>SERIAL NO.</b> 10/068,718	
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<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,067,324	05/2000	Harrison			
		6,081,566	06/2000	Molnar et al.			
		6,108,517	08/2000	Arslan et al.			
		6,147,985	11/2000	Bar-David et al.			
		6,148,041	11/2000	Dent			
		6,154,443	11/2000	Huang et al.			
		6,160,801	12/2000	Uchida et al.			
		6,161,209	12/2000	Moher			
		6,215,762	04/2001	Dent			
		6,335,954	01/2002	Bottomley et al.			
		6,459,740	10/2002	Lo			
		6,470,047	10/2002	Kleinerman et al.			
		6,470,192	10/2002	Karlsson et al.			
		6,483,866	11/2002	Suzuki			
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		6,556,634	04/2003	Dent			
		6,647,070	11/2003	Shalvi et al.			
		6,694,154	02/2004	Molnar et al.			
		6,697,441	02/2004	Bottomley et al.			
		6,731,700	05/2004	Yakhnich et al.			

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	<b>APPLICANT</b> David K. Mesecher	
	<b>FILING DATE</b> February 6, 2002	<b>GROUP</b> 2637

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2001/0030993	10/2001	Bottomely et al.			
		2002/003846	01/2002	Khayrallah et al.			
		2002/0122510	05/2002	Yakhnich et al.			
		2002/0181430	12/2002	Thomas et al.			
		2002/150187	10/2002	Chugg et al.			
		2002/154704	10/2002	Reshef			
		2003/0013468	01/2003	Khatri			
		2003/0053524	03/2003	Dent			
		2003/0058929	03/2003	Cox et al.			
		2003/0092456	05/2003	Dent			
	*	6,069,884 A	05/2000	Hayashi et al.			
	*	5,757,791	05/1998	Kanterakis et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		0 674 455	10/1994	EP				
		0 715 421	06/1996	EP				
		07 55 127 A2	01/1997	EP				
		0 820 157 A	01/1998	EP				
		08 81 781 A2	12/1998	EP				
		0 892 508	01/1999	EP				
		08 99 894 A2	03/1999	EP				
		22 80 575 A	02/1995	GB				

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				FILING DATE February 6, 2002		GROUP 2637	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		94/01956	01/1994	WO				
		95/34140	12/1995	WO				
		96/11533	04/1996	WO				
		97/13386	04/1997	WO				
		99/04537	01/1999	WO				
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		03/010899	02/2003	WO				
		04/012341	02/2004	WO				

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		FILING DATE February 6, 2002	GROUP 2637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
		Pahlavan et al., "Performance of Adaptive Matched Filter Receivers Over Fading Multipath Channels," IEEE Transactions on Communications, Vol. 38, No. 12, December 1990, pp. 2106-2113.	
		Latva-aho et al., "LMMSE Detection for DS-CDMA Systems in Fading Channels," IEEE Transactions on Communications, Vol. 48, No. 2, February 2000, 194-199.	
		Majmudar et al., "Adaptive Single-User Receivers for Direct-Sequence Spread-Spectrum CDMA Systems," IEEE Transactions on Vehicular Technology, Vol. 49, No. 2, March 2000, pp. 379-389.	
		Foerster et al., "Coding for a Coherent DS-CDMA System Employing an MMSE Receiver in a Rayleigh Fading Channel," IEEE Transactions on Communications, Vol. 48, No. 6, June 2000, pp. 1012-1021.	

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